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Title: ELECTRONIC HIGH-SECURITY SAFE LOCK

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FIELD OF THE INVENTION

This invention relates to electronic controlled locks and specifically to high security multi-user safe door locks.

BACKGROUND

Banks and certain business establishments have a need for very secure safes. In these circumstances a high security safe may be appropriately accessed by more than one person. Often, repeated access by a number of trusted employees and officers of the institution is required for efficient conduct of the business.

Large high security safe installations are typically set within thick hardened steel vault enclosures that include massive or roller-mounted steel doors. These massive doors often require considerable force to open or close and accordingly, where electrically driven, require significant electrical power to actuate. The lock bolts on dead bolts in the larger safes are massive and require significant power to move. Whatever the large safe vault design, substantial power is required to unlock and open and to close and lock.

Traditionally, safes were unlocked or prepared for access by operation of a mechanical combination lock. The combination for access to the safe was set by a qualified locksmith. Each person with authorized access to the safe would be